Work Orde April-05-13 1:17		308			*993				F				
Revision ID:	D3021-043 Tube Assemb	ıly			Accept	*N900)* Setup	Setup	Start Stop	ı Vı,	S1* S2*		
Start Date: 4 Required Date: 4 Reference:	4/04/13 4/19/13	Start Qty: Req'd Qty:		*1* *1*		Cust Item I Customer:	D:						
Approvals:	Process Plan: MCゴ			Date: 13~04-	08 Tooling:	D	Date:			Run	Start	"NR1"	
approvais.	QC:			Date:	SPC (Y/N):	Date:					Stop		
Sequence ID/ Work Center ID)	Operation Description			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	Rev	vision Nbr											
D3021	В												
100		, , , , , , , , , , , , , , , , , , ,			0.00						·		
100 Large Fab		Large Fab	emo		0.00				Ø		12	13-5-	8
Large Fab		1-0	Cut tube as	s per Dwg D3021									
		2-1	Orill tube a	ns per Dwg D3021 usin	g DT8622								
		3-I	Deburr				,						

4-Weld stud and end cap as per Dwg D3021 OS1004 A/R 4130 Rod Batch:

0.00

0.00

QC9- Inspect visual per QS1004- Fusion Welds

Memo

110

110

Quality Control

NCR: Y	res / N	10			WORK ORDER NON-	CONI	FORI	MANCE / UP	DATE		D-1-	_			
										QA Closed:	Date				
147 d O d		,			DISPOSITION	ŀ	AGAINST DEPARTMENT/PROCESS								
Work Orde	er:	1			Rework	7 		Skid-tube	Crosstube	7	Water Jet	Engineering			
Part N	No.	ì			Scrap	1		Machining	Small Fab	Pro	d. Eng. Coor.	Quality			
		[Use-as-is	1	Thern	noforming	Finishing	Rec/Sto	re/Packaging	Other			
NCR N	CR No.			Work Order Update	1		Large Fab	Composite		Supplier					
										- C: 0					
Root					iption of work order update	1	itial	1	tion	Sign &	Venification	OCInchester			
Cause	Da	te Ste	p Qty		or Non-conformance	Chie	f Eng	Desc	ription	Date	Verification	QC Inspector			
Doc/Data															
Equip/Tooling										1 .	1				
Operator	⊢														
Material			Ì												
Setup	Ш			1											
Other				ł											
Process															
Supplier						.									
Training					•						,				
Unapproved									· ·						
		<u> </u>				AULT	CATE	GORY		i,					
Landi	ng Gear				General						_	٦			
•	Bend	Ĭ		<u> </u> _	Bend	\vdash	Grain		<u> </u>	Ovalized	<u> </u>	Pressure/Forced			
	Centr	e Not Cor	ncentric to	o O/S	BOM/Route	 	łardwa		`\	Over/Under	-	Temperature/Cure			
	Crack	1		<u> </u>	Broken/Damaged	\vdash	•	ion Incomplete		Part Incorre		Weld			
	⊢⊣	ied/Crimp	ed.		Burrs	\vdash		tions Incomplete/	'Unclear	Part Lost/M	· -	Wrong Stock Pulled			
,	-	: F			Contamination	1		enance	-	Part Moved					
\$	 	Heat Treat Countersink				-	/lislabe		<u></u>	Positioned \	_				
	Inspe	Inspection Strip in Tube Cut Too Short				├	∕lisread	d .	L	Power Loss,	/Surge	Other			
	Rippl	ples in Bend Drill Holes					Offset								
	Torqu	ue Waves	in Extrusi	on	Drawing		Out of (Calibration							
	L	na Segue	nce		Finish		out of	Sequence							

Outside Dimensions

DQA:

Date:

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Ord April-05-13 1:1				*99					Page 2			
Item ID: Revision ID: Item Name:	D3021-0			Accept	*N900	*N900040			Setup	Start Stop	*NS	
Start Date: Required Date: Reference:	4/04/13 4/19/13	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item Customer:							
Approvals:	Process QC:	s Plan:	Date:	Tooling: SPC (Y/N):	r		1		Start Stop	*NF		
Sequence ID/ Work Center II 120 *170* QC Quality Control	D	Operation Description QC5- Inspect part compl	eteness to step on W/O	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Reje Qty	N	Reject Number OS-O	Insp. Stamp OAG
*130 *130* Powdercoat Powder Coating			192966 THREAD PRIOR TO PO 16:9:00 19:00:00						<u> 4</u>		<u> 13-5</u>	59.
140 *140* QC		QC3- Inspect Part Finish Memo		0.00 27 0.00 13 E)- 10			<u>j</u>			· ·	· · · · · · · · · · · · · · · · · · ·

Quality Control

		! !							DQA:	Date:			
NCR: Ye	es / No	<u></u>			WORK ORDER NON-C	CONFOR	RMANCE / UPI	DATE	QA Closed:	Date:			
Work Order	r:				DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part No.					Rework Skid-tube Crosstube Scrap Machining Small Fab Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite				Prod Rec/Stor	Engineering Quality Other			
Root Cause	Date	Step	Qty		ption of work order update or Non-conformance	Initial Chief En	i	ion ription	Sign & Date	Verification	QC Inspector		
Coc/Data Equip/Tooling Operator Waterial Setup () Other Process Supplier Training Unapproved													
			· · · · · · · · · · · · · · · · · · ·		<u> </u>	AULT CAT	EGORY						
Landin	Bending Centre No Cracks Crushed/ Cuffs Heat Trea	Crimped.		o/s	General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short	instru	vare ction Incomplete actions Incomplete/l tenance beled	Unclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct sissing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other		
·	Torque W	ples in Bend que Waves in Extrusion ning Sequence			Drill Holes Drawing Finish Folio	Out o	t f Calibration f Sequence de Dimensions						

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Work Ord	ler ID 99308 17:20 PM
Item ID:	D3021-043
Revision ID:	
Item Name:	Tube Assembly

00308

Page 3

April-05-13 1:17:2	0 PM			99.7		·			1 450 3	
Revision ID:	3021-043 be Assembly			Accept	*N90004010) () *	Setup 5	Start Stop	*NS1* *NS2*	
		Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:					
			Date:	Tooling: SPC (Y/N):	Date:	_		Start Stop	*NR1* *NR2*	
Sequence ID/ Work Center ID 150 *150* Packaging Packaging	I	Operation Description Identify as per dwg & Stoo Memo	ck Location: 87 [9	Set Up/ Run Hours 0.00	Tool ID Tool # Plai Cod		pt Rejec Qty		eject Insp. umber Stamp	2
160 *160* QC Quality Control	(QC21- Final Inspection - \ Memo	Work Order Release	0.00			131	15/1	13 A)	

NCR:	es ,	′ No				WORK ORDER NON-C	CONFO	ORIV	MANCE / UPDATE		QA Closed:	Date	e:		
Work Orde	or.		,	11.118	*	DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part No						Scrap Mac Use-as-is Thermofo			~ 			Water Jet Engineering d. Eng. Coor. Quality re/Packaging Other Supplier			
Root				,	Descri	ption of work order update	Initi	al	Action	/.i.bl/	Sign &				
Cause		Date	Step	Qty	(or Non-conformance	Chief	Eng	Description		Date	Verification	QC Inspector		
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved															
Опаррточеи	LL		L	<u> </u>	<u>. </u>	F	AULT C	ATEG	GORY		<u> </u>	1			
Landi	ding Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Heat Treat				o/s	General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink	Hai Ins Ins Ma	Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled			Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned N	ct issing	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled		
·	Inspection Strip in Tube Ripples in Bend					Cut Too Short Drill Holes	—	Misread Offset			Power Loss/	'Surge	Other		

Out of Calibration

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish Folio

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Picklist Print

April-05-13 1:17:20 PM

Work Order ID:

99308

Parent Item:

D3021-043

Parent Item Name:

Tube Assembly

Start Date: 4/04/13

Required Date: 4/19/13

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

1PP REV:A 12.06.11 NEW ISSUE DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3017-11		Manufactured	No			100	Each	30.0000	1	17 ¹	13-5-	d	
cap										_CL_	_/	Y	
				Location		Loc Qty	Lo	c Code					
				WA002	_	30							
				9183	37	30							
D4667-041		Manufactured	No			100	Each	8.0000	1	A^{2}	13-5-1	~	
Armrest Stud Assembly										<i>EL</i>	/		
				Location		Loc Qty	Lo	c Code					
				WA003	5 .	8				<i>P</i>			
NA 41 70 NITO # #033/ 040			NI.	923	حلا		c	42 4219	2 225	2.445	3.69.4		
M4130NT0.750W.049 4130 RD Tube .750 x.049	37	Purchased	No			100	1	42.4218	2.325	2.447. <i>[-</i> 7	3684 3 <u>~5·7</u>		
4130 KD 100e ./30 x.049	W			T4'		I 05-	T .	. 6.4.	************	<u> </u>			
				Location		Loc Qty	L	oc Code					
				MAT033	220	42.4217893				 			
				1233 1243		6.6217893 35.8							
					25313	× 2.2							

NCR: Y	es / No				WORK ORDER NON-	CON	FORN	MANCE / UPDAT	Έ	QA Closed:	Date	::		
Work Orde	r:				DISPOSITION	_	AGAINST DEPARTMENT/PROCESS Skid-tube Crosstube Water Jet Engineering							
Part N	lo.				Rework Skid-tube Crosstube Scrap Machining Small Fab Use-as-is Thermoforming Finishing					Pro Rec/Stor	Engineering Quality Other			
NCR No.					Work Order Update									
Root Cause	1 1 1 1 '				ption of work order update or Non-conformance	1	tial f Eng	Action Descriptio	on	Sign & Date	Verification	QC Inspector		
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved								•						
						AULT	CATE	GORY	<u> </u>					
Landin	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend			General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offset			Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other			
	Torque W	laves in E	Extrusion	1 I	Drawing		ot of C	Calibration						

Out of Sequence

Outside Dimensions

DQA: Date:

Turning Sequence

Wave/Twist in Tube

Finish

Folio

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